## What is claimed is:

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- 1. A method for preparing a fusion polypeptide comprising epidermal growth factor (EGF) and human serum albumin in a plant, which comprises the steps of:
- 5 (a) transforming plant cells with a polynucleotide sequence comprising:
  - (i) a nucleotide sequence encoding said fusion polypeptide comprising EGF and human serum albumin linked to the C-terminal or N-terminal of said EGF; and in which the stability of said EGF is enhanced by virtue of said human serum albumin;
  - (ii) a promoter that functions in plant cells to cause the production of an RNA molecule operably linked to the nucleotide sequence of (i); and
- (iii) a 3'-non-translated region that functions in plant cells to cause the polyadenylation of the 3'-end of said RNA molecule;
  - (b) selecting transformed plant cells;
  - (c) regenerating a plant from said transformed cells; and
- 20 (d) recovering from said regenerated plant said fusion polypeptide.
  - 2. The method according to claim 1, wherein said plant is Nicotiana tabacum, Cucumis melo, Curcumis sativa, Citrullus vulgaris or Brassica campestris.
  - 3. The method according to claim 1, wherein a nucleotide sequence of said EGF comprises nucleotide 1-159 as set forth in SEQ ID NO:1.

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- 4. The method according to claim 1, wherein said human serum albumin is linked to the C-terminal of said EGF.
- 5 5. A method for preparing a fusion polypeptide comprising EGF and human serum albumin in a plant, which comprises the steps of:
  - (a) inoculating an explant material from said plant with Agrobacterium tumefaciens harboring a vector, in which said vector is capable of inserting into a genome of a cell from said plant and contains the following nucleotide sequences:
    - (i) a nucleotide sequence encoding said fusion polypeptide comprising EGF and human serum albumin linked to the C-terminal or N-terminal of said EGF; and in which the stability of said EGF is enhanced by virtue of said human serum albumin;
    - (ii) a promoter that functions in plant cells to cause the production of an RNA molecule operably linked to the nucleotide sequence of (i); and
- 20 (iii) a 3'-non-translated region that functions in plant cells to cause the polyadenylation of the 3'-end of said RNA molecule;
  - (b) regenerating the inoculated explant material on a regeneration medium to obtain regenerated shoots;
- (c) culturing said regenerated shoots on a rooting medium to obtain a transformed plant, in which said transformed plant is capable of expressing said nucleotide sequence of (i); and

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- (d) recovering from said transformed plant said fusion polypeptide.
- 6. The method according to claim 5, wherein said plant is
  Nicotiana tabacum, Cucumis melo, Curcumis sativa, Citrullus vulgaris or Brassica campestris.
- 7. The method according to claim 5, wherein a nucleotide sequence of said EGF comprises nucleotide 1-159 as set forth in SEQ ID NO:1.
  - 8. The method according to claim 5, wherein said human serum albumin is linked to the C-terminal of said EGF.